

Test # _____

Public Health

3202/1515

Study Guide

Name (print) _____

Student ID # _____

- 1) There is only **one** correct answer for each question.
- 2) If you erase, please do so completely.
- 3) Spelling errors are **not** detractors.
- 4) **No** questions will be answered during the examination.
- 5) Each student has **1 hour** to complete this examination.
- 6) There are 50 questions on this examination.

Please circle your answers on your examination!

- 1) **Which one of the following statements is **not** correct?
 - a) An injury is some type of physical damage to an individual as the result of coming into contact with a physical or chemical agent at a rate greater than the individual's body can tolerate. y
 - b) An example of unintentional injury is poisonings y
 - c) An example of intentional injury is aggravated assault y
 - d) The Haddon Matrix Model is used in the U.S. to help determine possible interventions and/or preventions of particular injuries. y
 - e) **The most common type of death from injury in a public place is due to falls**
Drowning is the most common PUBLIC ; Falls are leading cause at HOME
- 2) Which one of the following statements is **not** correct?
 - a) Cow's milk is high in protein, calcium, and phosphorus y
 - b) **Stomach cancer is the most often type of cancer acquired from hormones in milk**
bone cancer is most common
 - c) Sodium caseinate is the principle protein in plain cow's milk y
 - d) Fortified milk has vitamins A and D added y
 - e) Infant's immature kidneys are stressed by plain cow's milk y
- 3) **Which one of the following statements is **not** correct?
 - a) An example of an intentional injury is child abuse y
 - b) Males are more prone to violent behavior than females y
 - c) **Most states use a blood alcohol concentration of .10 g/dl as impaired for driving**
 - d) **American blacks have a higher rate of suicide and a lower risk of homicide than American whites. This crazy question was on the last test. Both are incorrect**
 - e) Having chronic medical conditions can increase the risk of injuries y
- 4) **Which one of the following types of energy injuries is the most common cause of injury?
 - a) Radiation
 - b) Thermal
 - c) Electrical
 - d) **Kinetic think car accidents**
 - e) Chemical
- 5) _____ = milk is heated to 143 degrees F for 30 minutes and then cooled rapidly?
 - a) Flash method 161 degrees 15 seconds
 - b) **Holding method**
 - c) Ultra high temperature 193 degrees F for 3/4 second rapidly cooled to 45 or 50 degrees F.
This type of milk can be stored forever.
 - d) Gamma radiation salmonella treatment

- 6) _____ = is where an enzyme in milk is destroyed at the same temperature as effectively pasteurized milk? To meet safety standards, 96% of this enzyme must be destroyed.
- a) Standard plate count # of bacteria in sample; <30,000 per ml is safe
 - b) **Phosphatase test**
 - c) Coliform count most accurate method for determining ; fecal contaminated milk
 - d) Sterile test
- 7) Which one of the following statements is not correct?
- a) Condensed milk has a large amount of sugar added during processing y
 - b) Formula-fed infants consume a large amount of tap water y
 - c) **The standards for spraying pesticides for the grain eaten by livestock is greater than the standards for the grain eaten by humans Standards are lower for livestock**
 - d) Allergic reactions can occur from homogenization of milk due to protein getting into the blood from this process y
 - e) A danger from antibiotics in milk is it may lead to secondary bacterial or yeast infections y
- 8) Milk left out too long becomes _____ and tastes bitter?
- a) Acidic
 - b) **Alkaline**
- 9) Which one of the following statements is **not** correct?
- a) Lack of clean water is the single greatest threat to mankind today y
 - b) The average human uses 75 gallons of water per day y
 - c) Fluoride is known to accumulate in the human body and at high levels can become toxic y
 - d) **Mineral water is water treated by any of a number of chemical or physical processes that remove dissolved solids Mineral water is actually obtained from protected underground stores; think Fiji**
 - e) Agriculture is the largest source of sewage today in the U.S. y
- 10) Disability is described as the loss of function of the human body?
- a) True
 - b) **False-Disability is how impairment affects individuals ability to function in society**
- 11) Which one of the following agencies jurisdiction covers all non-governmental workplaces. Its goal is to assure a safe and healthful workplace for all Americans?
- a) **OSHA**
 - b) EPA
 - c) CDC
 - d) RDA

12) A patient demonstrates with the following: altered mental status, irritable, seizures, delirious, dizzy, and loss of consciousness. What is the name of this condition?

- a) Heat exhaustion
- b) **Heat stroke**
- c) Heat prostration
- d) Heat fatigue

13) A patient demonstrates with the following: fever, chills, myalgia, headaches, and has an occupation as a *machine operator*. What is the name of this condition?

- a) **Pontiac Fever-Think Michigan Auto Worker**
- b) Byssinosis
- c) Berylliosis
- d) Lead Inhalation

Matching #1

14) *Ixodes scapularis* tick **Lyme Disease**

15) Gram positive spore forming aerobic rod **Anthrax**

16) Acute regional lymphadenitis affecting dog and cat handlers **Cat Scratch Fever**

17) San Joaquin Valley Fever **Coccidioidimycosis**

18) *Coxiella burnetii* **Q Fever**

19) Arbovirus **Colorado Tick Fever**

c. Rocky Mountain Spotted Fever

d. Histoplasmosis

e. Q Fever

ab. Coccidioidimycosis

ac. Lyme Disease

ad. New Castle Disease

ae. Colorado Tick fever

- 20) A patient demonstrates with the following: a grain mill worker who has been handling damp hay and has inhaled spores which produced a fungus ball (mycetoma) in his lungs. What is the name of this condition?
- a) Histoplasmosis
b) Aspergillosis
c) Coccidioidomycosis
d) Psittacosis
- 21) _____ are toxins that are released by the organism while it is alive?
- a) Endotoxins
b) Exotoxin
c) Enterotoxins
d) Neurotoxins
- 22) Which one of the following statements is **not** correct?
- a) The use of Gamma radiation is being introduced as a method of *Salmonella* eradication **Y**
b) Ptomaine poisoning is usually due to nuts, fruits or vegetables due to Meat
c) Septicemia is the presence of a multiplying organism in the blood **Y**
d) Food intoxication is when a human ingests the by products of an organism **y**
e) Hepatitis and typhoid fever are found in shellfish **Y**

Matching #2

- | | |
|--|------------------|
| 23) Found in meat, pork and fresh water fish and regrows from segments TAPE WORM | a. Ascaris Worm |
| | b. Tape Worm |
| 24) Causes inflammation of the intestines and gastritis SALMONELLA | c. Hook Worm |
| | d. Typhoid Fever |
| 25) Grows in the intestines and can cause occlusion and can result in appendicitis ASCARIS WORM | e. Salmonella |
| | ab. Pin Worm |
| 26) A rod shaped gram + organism and produces a nerve toxin that can paralyze a humans respiratory muscles BOTULISM | |

- 27) Approximately 1/2 billion individuals have this worm which sucks blood from the intestinal wall

HOOKWORM

- 28) Most common type of food poisoning *with the by products from the **organism** being the problem.*
Meat is a good environment for its growth. **Staphylococcus**

- 29) Children ingest the organism by putting their hands in their mouth. At night female worm lays eggs in the rectal region of host. aka Enterobiasis. **PIN WORMS**

- 30) Which one of the following statements is **not** correct in regards to the classification of soft water?

- a) Has a high sodium concentration **y**
- b) **Has a high calcium and magnesium concentration**
- c) Makes more bubbles with less soap **y**
- d) Found in most U.S. cities **y**
- e) Associated with increased rates of heart disease and hypertension **y**

- 31) Which one of the following statements is **not** correct?

- a) **Weston Price conducted worldwide studies which found that people who ate refined sugars and processed foods were free of dental decay and pelvic abnormalities **Standard American Diet lots of refined sugar, lots of cavities****
- b) Dr. Hurd's results showed that dental decay fell rapidly with the addition of 1ppm of fluoride to the water **y**
- c) Aquifers are underground rock formations containing water that can be drawn to the surface for use **y**
- d) The size of a septic tank for a family is 500-700 gallons **y**
- e) Radioactivity can be found in minute amounts in all drinking water **y**

- 32) Which one of the following statements is **not** correct?

- a) Chlorination of water has been related to high blood pressure and neurological problems **y**
- b) Bromoform is a known carcinogen which is found in 1/3 of treated public drinking water
- c) Dumping non-biodegradable items into a septic tank will result in the tank filling up because these items cannot breakdown **y**
- d) Minimum distance from a water source to the septic tank and absorption field is 100 feet **y**
- e) **The effectiveness of a carbon filter increases with time **Decreases with time****

- 33) Which one of the following statements is **not** correct?
- a) All water has been distilled at one time **y**
 - b) Drinking water from plastic containers is not healthy **y**
 - c) Faucet filters can breed bacteria **y**
 - d) **Most bottling water plants disinfect their products with chlorine plants use ozone**
 - e) Alexander Graham Bell was the first to talk about home distillation **y**
- 34) Which one of the following statements is **not** correct?
- a) Asbestosis on x-rays demonstrates as extensive fibrosis and linear diffuse infiltrates in a honeycomb or ground glass appearance. **y**
 - b) Sick Building Syndrome can be characterized by nausea **y**
 - c) Ingestion of glycols can demonstrate with CNS depression **y**
 - d) **Hydrogen cyanide has a high affinity for hemoglobin which is about 240 times greater than that of oxygen Cyanide ions inhibit enzymes of respiratory system**
 - e) Coal Worker's Pneumoconiosis demonstrates as nodular lung opacities on chest x-rays **y**
- 35) **The National Safety Council gathers and compiles data from many sources to produce and conduct injury prevention programs.
- a) **True**
 - b) **False**
- 36) Which one of the following statements is **not** correct?
- a) BOD refers to the oxygen required at any time to satisfy the oxygen requirement for the decomposition of sewage **y**
 - b) Lack of clean water is the single greatest threat to mankind today **y**
 - c) Sewage is 98%-99% water **y**
 - d) **The thalamus initiates impulses that stimulate drinking behavior Hypothalamus**
 - e) A septic tank employs anaerobic bacteria to breakdown waste products **y**
- 37) **Which one of the following statements is **not** correct?
- a) **Musculoskeletal injuries of the cervical spine are the most common type of occupational injury: low back injuries are the most common**
 - b) Falls are the most common type of home injury death. **y**
 - c) The most common type of death from injury in a public place is drowning in a natural body of water **y**
 - d) Suffocation is the leading cause of injury mortality to children less than one year of age **y**
 - e) A passive injury prevention strategy requires no individual action and generally are the most effective. **y**

- 38) Which one of the following statements is **not** correct?
- a) Radioactivity can contaminate milk **y**
 - b) Pesticides can contaminate milk **y**
 - c) Cows are given BGH hormones for greater milk output **y**
 - d) Antibiotics can stimulate the growth of a cow **y**
 - e) **There does not appear to be any danger for humans consuming milk containing antibiotics** **huge list of problems and dangers**
- 39) Which one of the following items is **not** a requirement for a disease causing bacteria?
- a) Warmth
 - b) Moisture
 - c) Nutrients
 - d) **Motility**
- 40) Which one of the following statements is **not** correct?
- a) **Bacteremia is the presence of a multiplying organism in the blood** **Septicemia is the presence of a multiplying organism in blood**
 - b) *Staphylococcus aureus* is the 2nd most common type of food poisoning **y**
 - c) Botulism is anerobic and lives mostly in soil **y**
 - d) Salmonella has long term affects can be arthritis and endocarditis **y**
 - e) Shigellosis is spread via the fecal-oral route **y**
- 41) Which one of the following statements is **not** correct?
- a) Cholera is a disease spread through the water supply **y**
 - b) Human blood mineral content is almost identical to the ocean water mineral content **y**
 - c) Tonic water is legally called a soft drink **y**
 - d) **Psittacosis is usually found in winter months resulting from contact of infected rabbits** **caused by bird: feather dust, dung, and bites**
 - e) Rocky Mountain Spotted Fever is more prevalent in the southeast and southwest **y**
- 42) Lyme Disease is characterized by headaches with: a stiff neck, splenomegaly, lymphadenopathy and a red macule?
- a) **True**
 - b) False

Matching #3

- 43) Looks good, tastes good and is free from harmful substances = **Potable Water**
- 44) Refers to water with poisonous materials in it. It may look safe to drink, but may be dangerous. = **Contaminated Water**
- 45) Looks good, tastes good and is safe short and long term. = **Good Clean Water**
- 46) Does not look good or taste good and does not contain disease causing items. = **Safe Water**
- 47) Has a taste, smell or look which is unpleasant, It may be safe to drink. = **Polluted Water**
- a. Safe water
- b. Potable water
- c. Good clean water
- d. Polluted water
- e. Contaminated water
- 48) Which one of the following statements is **not** correct?
- a) Colorado Tick Fever is characterized by headaches with eye movement and photophobia **y**
- b) Q fever is characterized by interstitial pneumonitis **y**
- c) Cat Scratch Fever organisms can be seen with Warthin-Starry silver **y**
- d) **Anthrax is a gram negative spirochete found in birds It is gram positive; sheep, goats, horses & swine**
- e) Coccidioidomycosis is a fungal infection but can affect all organs of the body **y**
- 49) Which one of the following statements is **not** correct?
- a) Alexander Graham Bell was the first to talk about home distillation **y**
- b) **Radioactivity in drinking water is associated with urinary bladder cancer bone cancer**
- c) Carbon filtration units attached to water faucets can breed bacteria **y**
- d) Quality testing of a sample of water is only good at the time of the testing **y**
- 50) Which one of the following statements is **not** correct?
- a) A predisposing factor of heat exhaustion is physical activity without being acclimatized **y**
- b) A predisposing factor of heat cramps is strenuous activity without training **y**
- c) **Lead ingestion can demonstrate with optic neuropathy or metabolic acidosis**
- d) Coal Worker's Pneumoconiosis is due to chronic exposure to coal dust **y**
- e) Hydrogen sulfide is a by-product of sewage and petroleum. **y**